

CLAIMS:

1. A transmission system including:
 - a broadcasting system (10, 20, 30, 40) for broadcasting programmes,
 - a download system (90) including a server (92) for storing content parts of at least some of the broadcast programmes in association with respective content part
- 5 identifiers; and a communication system (94) for on demand downloading of programme content parts stored in the server;
 - a recording system (75) including:
 - a broadcast receiver (210) for receiving broadcast programmes,
 - a download receiver (280) for requesting and receiving content parts
 - 10 from the server;
 - a recorder (290) including a storage system (292) for storing received programmes and for playback of stored programmes; and
 - a controller (250) operative to:
 - determine whether an instructed recording of a broadcast
 - 15 programme would exceed a predetermined capacity of the recording system for recording and playback of programmes during at least part of a corresponding broadcast period; and
 - if so, instruct the recorder to record content parts of the broadcast programme during a part of the broadcast period in which the capacity is not exceeded; store an identification of a content part of the broadcast programme that can not be recorded;
 - 20 determine a period in which the capacity of the recorder is not exceeded; instruct the download receiver to download the not recorded content part from the server in the determined period and instruct the recorder to record the downloaded content part in association with the broadcast programme.
 - 25 2. A transmission system as claimed in claim 1, wherein the controller is operative to, if the task of recording of the broadcast programme would exceed the predetermined capacity, determine at least one conflicting recording or playback task that causes the lack of capacity, and to select which task not to execute during a period of the broadcast in which there is not sufficient capacity.

3. A transmission system as claimed in claim 2, wherein each broadcast programme is associated with a programme identifier, and wherein content parts are stored in the server in associating with a programme identifier; the controller being operative to give priority to halting a recording task involving a broadcast programme stored in the server.
4. A transmission system as claimed in claim 2, wherein each broadcast programme is associated with at least one programme attribute; the controller being operative to give priority to executing a recording task relating to a programme with at least one predetermined programme attribute.
5. A transmission system as claimed in claim 2, wherein the programme attribute includes at least one of the following:
 - programme category
 - broadcast channel
 - programme language,
 - metadata,
 - coding information.
6. A transmission system as claimed in claim 2, wherein the controller is operative to select from conflicting tasks based on a profile of a user of the recording system.
7. A transmission system as claimed in claim 6, wherein the profile includes at least one of the following:
 - preferred programme categories
 - preferred broadcast channels
 - preferred programme language,
 - preference for playback or recording,
 - preferred metadata,
 - preferred coding.
8. A transmission system as claimed in claim 2, wherein the controller is operative to enable a user to select from conflicting tasks through a user interface.

9. A recording system for use in a transmission system as claimed in claim 1; the recording system including:

a broadcast receiver (210) for receiving broadcast programmes,

a download receiver (280) for requesting and receiving content parts from the

5 server;

a recorder (290) including a storage system (292) for storing received programmes and for playback of stored programmes; and

a controller (250) operative to:

determine whether an instructed recording of a broadcast programme

10 would exceed a predetermined capacity of the recording system for recording and playback of programmes during at least part of a corresponding broadcast period; and

if so, instruct the recorder to record content parts of the broadcast programme during a part of the broadcast period in which the capacity is not exceeded; store an identification of a content part of the broadcast programme that can not be recorded;

15 determine a period in which the capacity of the recorder is not exceeded; instruct the download receiver to download the not recorded content part from the server in the determined period and instruct the recorder to record the downloaded content part in association with the broadcast programme.

20 10. A method of recording broadcast programmes; the method including:

determine whether an instructed recording of a broadcast programme would exceed a predetermined capacity a recording system for recording or playback of programmes during at least part of the corresponding broadcast period; and

25 if so, instructing the recording system to record content parts of the broadcast programme during a part of the broadcast period in which the capacity is not exceeded; storing an identification of a content part of the broadcast programme that could not be recorded; determining a period in which the capacity of the recorder is not exceeded; instructing a download receiver to download the not recorded content parts from the server in the determined period and instructing the recording system to record the downloaded content 30 part in association with the broadcast programme.

11. A computer program product operative to cause a controller in a recording system to execute the method of claim 10.